NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) Burlington VT
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH: April YEAR: 2013
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		SIGNATURE: /s/ Gregory A. Hanson, SH WFO BTV DATE: 4/30/2013

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

☐ An X inside this box indicates that no flooding occurred within this hydrologic service area.

The spring snowmelt that began in March came to an end in April. Only the highest summits had patchy snow cover remaining. There were periodic light rain and melt episodes throughout the month, but only two produced appreciable rises on area rivers. River ice had cleared during March, and there was no ice jam threat in April. Temperatures were near normal, however precipitation was a half to one inch below normal. The continued trend of slightly below normal precipitation kept a D0, abnormally dry, drought categorization on the National Drought Monitor, and outside the snowmelt and rainfall periods river flows were mostly below normal.

Rivers in southern Vermont rose on April 10 and 11 in response to a half to three quarters inch of rainfall and snowmelt. Temperatures remained cool at higher elevations, limiting snowmelt, and rivers remained within their banks. Southern Vermont rivers including Otter Creek (Figure 1) and White River (Figure 2) rose two to three feet.

The biggest freshet of April 2013 was 18th through 20th, when warm temperatures in the days leading up started snowmelt, and then a cold front on the 19th provided the focus for rain showers. Rivers rose several feet (Figure 3), and the combination of rain and snowmelt pushed the East Branch Passumpsic near East Haven Vermont (EHVV1) above flood stage (Figure 4). A flood warning was issued for Caledonia County Vermont at 0740 UTC on April 20 2013. Water flooded fields north of Lyndonville Vermont and rose to the edge of the road at the junction of Routes 5, 114, and 122.

There was no ice left on rivers by the end of the month. Lake Champlain rose to its highest levels of the snowmelt season, reaching 97.51 feet at Rouses Point NY on April 23. Flood stage on Lake Champlain is 100 feet.

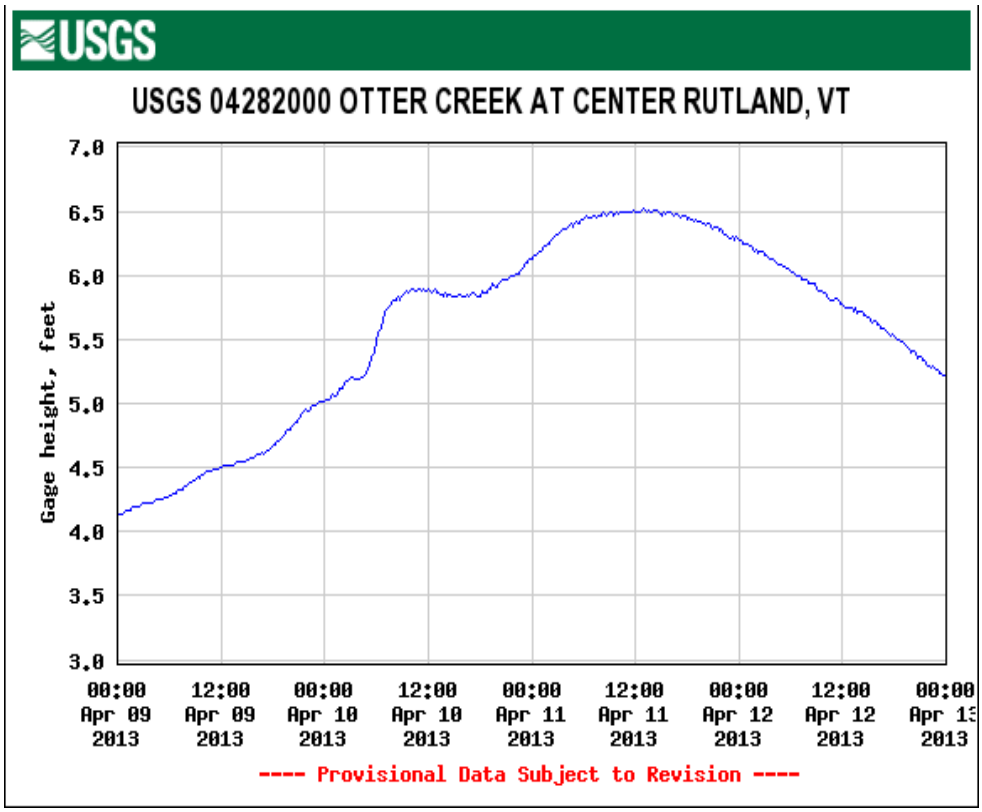

Figure 1, Otter Creek at Center Rutland VT. Flood stage 8.0 feet.

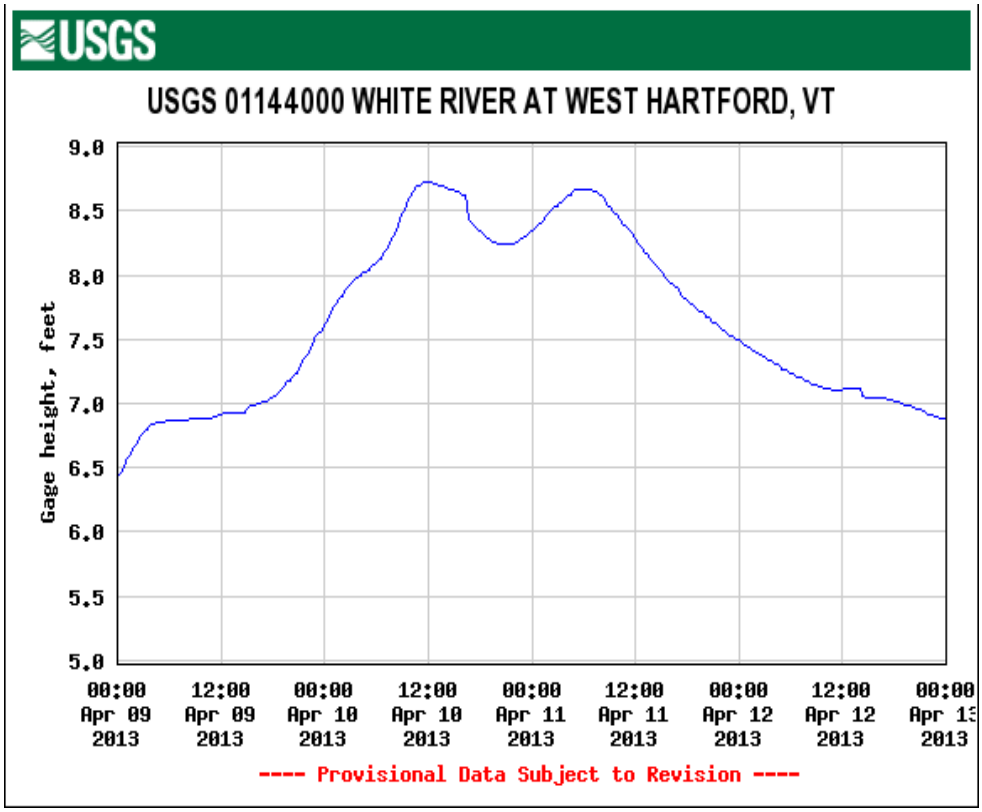

Figure 2, White River at West Hartford, VT. Flood stage 18 feet.

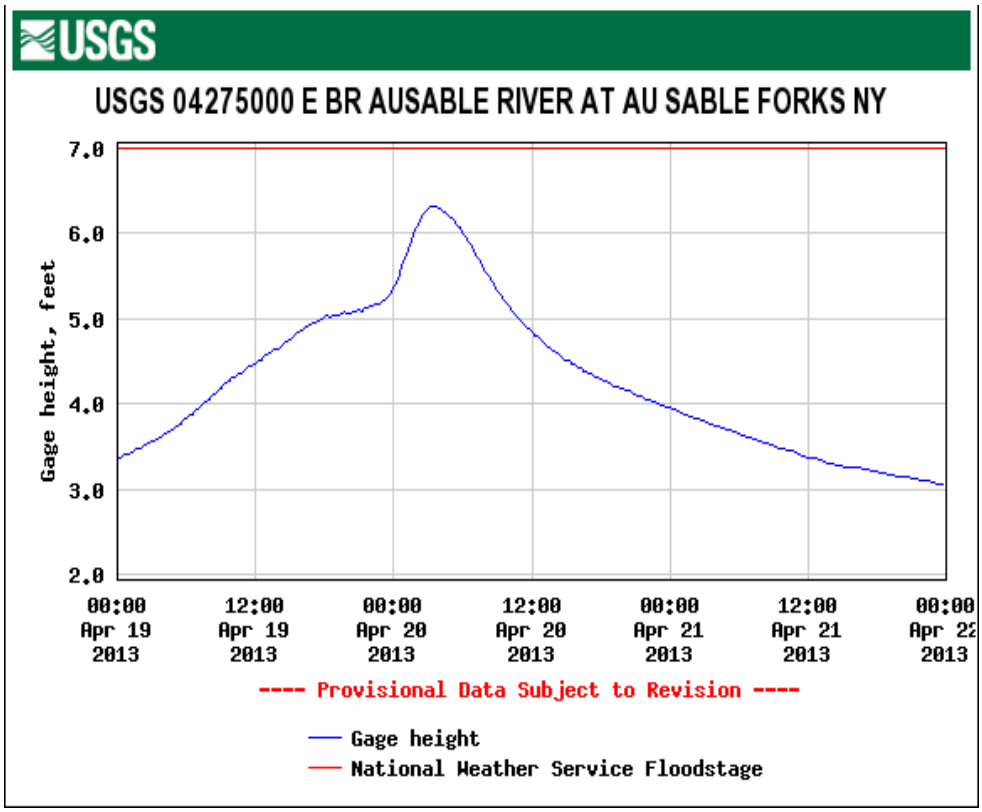

Figure 3, East Branch Ausable River at Ausable Forks NY. Flood stage 7.0 feet

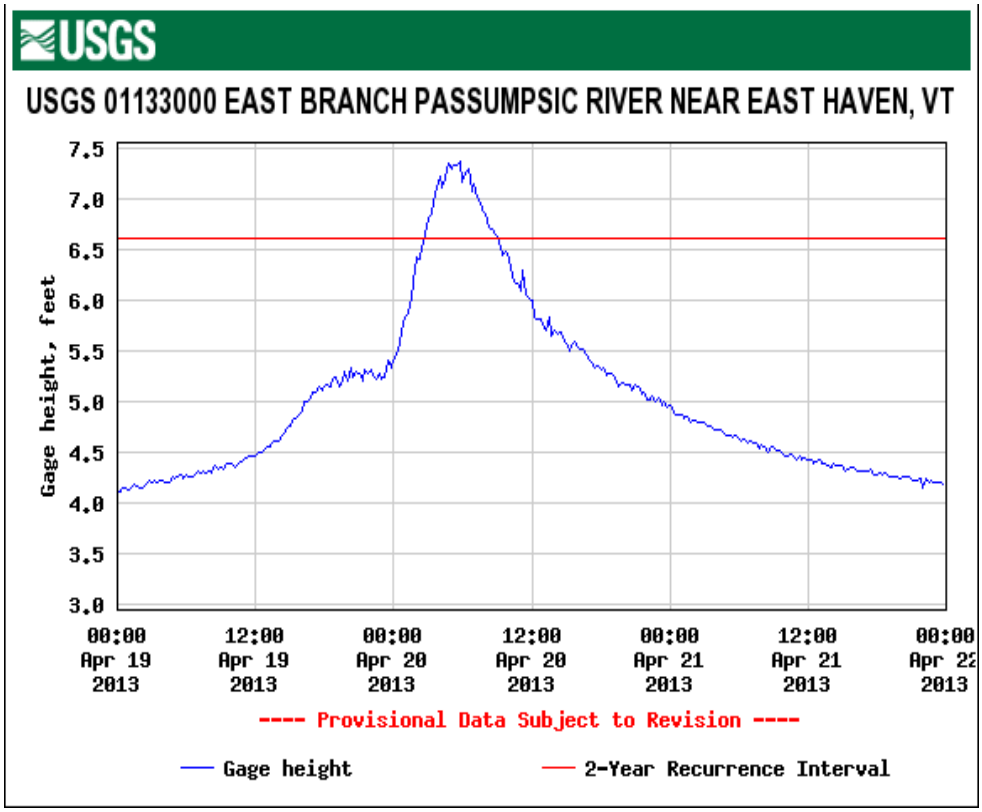

Figure 4, East Branch Passumpsic near East Haven VT. Flood stage 6.5 feet.

Significant River Crests
April 2013
WFO Burlington VT

Gage	NWSLI	Crest (ft)	Date	Time (UTC)	Flood Stage (ft)
East Branch Passumpsic near East Haven VT	EHVV1	7.36	4/20	09:45	6.5
Passumpsic River at Passumpsic VT	PASV1	10.86	4/20	20:15	14.0
Barton River near Coventry VT	COVV1	7.75	4/21	06:30	8.0
Missisquoi River near North Troy	NTYV1	8.45	4/20	16:30	9.0
Lamoille River at Jeffersonville VT	JVLV1	448.81	4/20	19:45	450.0
East Branch Ausable at Ausable Forks NY	ASFN6	6.30	4/20	08:15	7.0
White River at West Hartford VT	WEHV1	11.38	4/20	11:30	18.0
Otter Creek at Center Rutland VT	CENV1	7.03	4/20	11:00	8.0